# Translation

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 020276WO	FOR FURTHER ACT	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date	(day/month/year)	Priority date (day/montl/year)			
PCT/EP2003/006713	25 June 2003 (2	25.06.2003)	25 June 2002 (25.06.2002)			
International Patent Classification (IPC) or national classification and IPC G10K, 11/172						
Applicant	ARCOUSTICS TECH	H CENTER GMI	ЭН.			
<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>						
2. This REPORT consists of a total of	f 5 sheets, in	ncluding this cover s	heet			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of8 sheets.						
3. This report contains indications re	ating to the following item	ıs:				
I Basis of the report	:					
II Priority						
III Non-establishmen	t of opinion with regard to	novelty, inventive st	tep and industrial applicability			
Lack of unity of it	ivention					
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain document	s cited					
. VII Certain defects in	the international application	מכ	1			
VIII Certain observations on the international application						
·						
Date of submission of the demand		Date of completion of this report				
19 January 2004 (19.01.2004)		071	February 2005 (07.02.2005)			
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No.				

NR. 337 S. 3

International	application	No.
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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT PCT/EP2003/006713

I. Basis of the report								
1. With regard to the elements of the international application:*								
	the inter	national application as originally filed						
	the desc	ription:						
الاسكا	pages	1, 4-9	, as originally filed					
	pages		, filed with the demand					
	pages	2, 2a, 2b, 3, 3a , filed with the letter of	28 December 2004 (28.12.2004)					
	the clair		·					
		·	, as originally filed					
	bages f	, as amended (togeth						
	pages		, filed with the demand					
	pages	1-14 , filed with the letter of	28 December 2004 (28.12.2004)					
$\square$	و ما د	·						
	the drav	1/5 5/6	, as originally filed					
	pages .		, filed with the demand					
	pages .	, filed with the letter of						
-		<del></del>						
╽┖┛╵	•	nce listing part of the description:						
	pages		, filed with the demand					
	pages	, filed with the letter of						
	pages							
2. With	regard to	the language, all the elements marked above were available or furnished to all application was filed, unless otherwise indicated under this item.	this Authority in the language in which					
Thes	nternation se elemen	is application was filed, unless other wise indicated under his section was filed, unless other wise indicated under his section.	which is:					
	the lan	guage of a translation furnished for the purposes of international search (under	Rule 23.1(b)).					
	the lan	guage of publication of the international application (under Rule 48.3(b)).						
	the lan or 55.3	guage of the translation furnished for the purposes of international prelimina ).	ry examination (under Rule 55.2 and/					
3. With	h regard iminary e	to any nucleotide and/or amino acid sequence disclosed in the inter- camination was carried out on the basis of the sequence listing:	national application, the international					
Ι'n	•	ed in the international application in written form.						
		gether with the international application in computer readable form.						
		ed subsequently to this Authority in written form.						
		ed subsequently to this Authority in computer readable form.						
	The st	atement that the subsequently furnished written sequence listing does national application as filed has been furnished.	ot go beyond the disclosure in the					
	The st	nternational application as filed has occur numished.  The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The an	nendments have resulted in the cancellation of:						
	Н	the description, pages	İ					
	Ц	the claims, Nos.						
1		the drawings, sheets/fig	•					
5.	This rebeyond	port has been established as if (some of) the amendments had not been made, the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	since they have been considered to go					
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and arc not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).								
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.								
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NO

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement							
	Novelty (N)	Claims	1-14	YES				
		Claims		NO NO				
	Inventive step (IS)	Claims	1-14	YES				
	• • •	Claims		NO NO				
	Industrial applicability (IA)	Claims	1-14	YES				

2. Citations and explanations

1. Reference is made to the following document:

Claims

D1: EP-A-0 454 949 (FREUDENBERG CARL FA) 6 November 1991 (1991-11-06)

### 2. INDEPENDENT CLAIM 1

D1 is considered the prior art closest to the subject matter of claim 1. D1 discloses (the references in brackets are to that document):

A sound absorber with a moulded part made of thermoplastic plastics (polypropylene) and at least one second part (3) which delimits a cavity with the moulded part, there being formed on the moulded part a plurality of pin-like spacers which project into the cavity and are directed towards the second part, the exterior of the moulded part having a plurality of depressions, each of which extends into a spacer.

Therefore the subject matter of claim 1 differs from the known sound absorber in that the mean outer diameter of each spacer is smaller than the mean length thereof.

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Consequently the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem addressed by the present invention can thus be considered that of increasing the performance of the sound absorber.

In order to solve this problem, spacers whose mean outer diameter is smaller than their mean length are used, which scarcely decreases the acoustic volume of the air-filled cavity in the sound absorber and thereby increases the performance thereof.

This solution cannot be found in the searched prior art, nor would a person skilled in the art arrive at the subject matter of claim 1 on the basis of the available document. The subject matter of claim 1 therefore involves an inventive step (PCT Article 33(3)).

### 3. DEPENDENT CLAIMS 2 TO 14

Claims 2 to 14 are dependent on claim 1 and hence likewise meet the PCT novelty and inventive step requirements.